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A Facile and Practical *p*-Toluenesulfonic Acid Catalyzed Route to Dicoumarols Containing an Aroyl group

Saeed Khodabakhshi[1,*], Bahador Karami[2], Khalil Eskandari[2,*] and Alimorad Rashidi[1]

[1]*Nanotechnology Research Center, Research Institute of Petroleum Industry, Tehran, Iran*
[2]*Department of Chemistry, Yasouj University, P. O. Box 353, Yasouj, 75918-74831, Iran*

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^{1}H NMR and ^{13}C NMR spectra of products **3b**, **3e**, **3f**, **3g**, **3h**

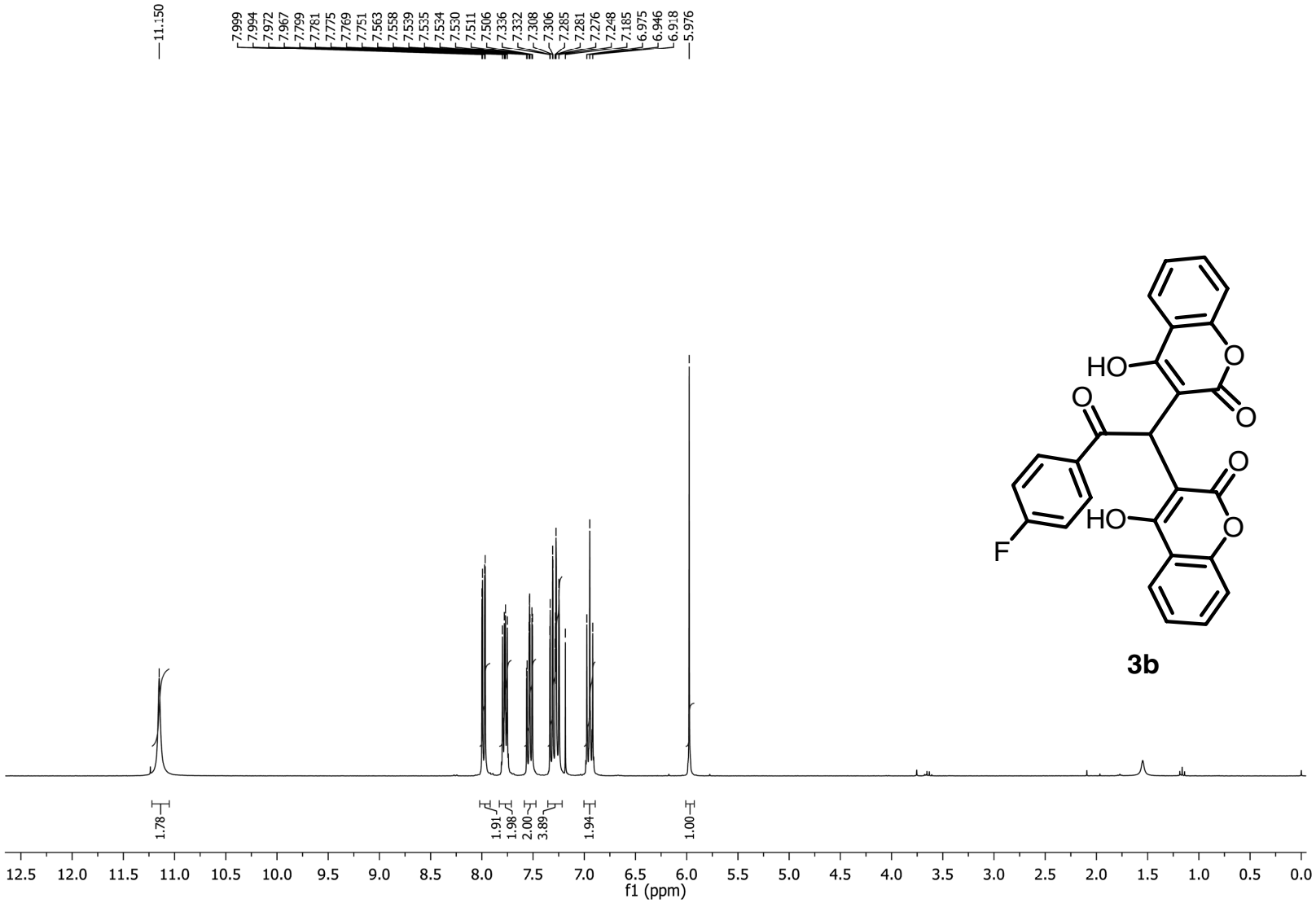

Figure 1 ^{1}H NMR spectrum of **3b**

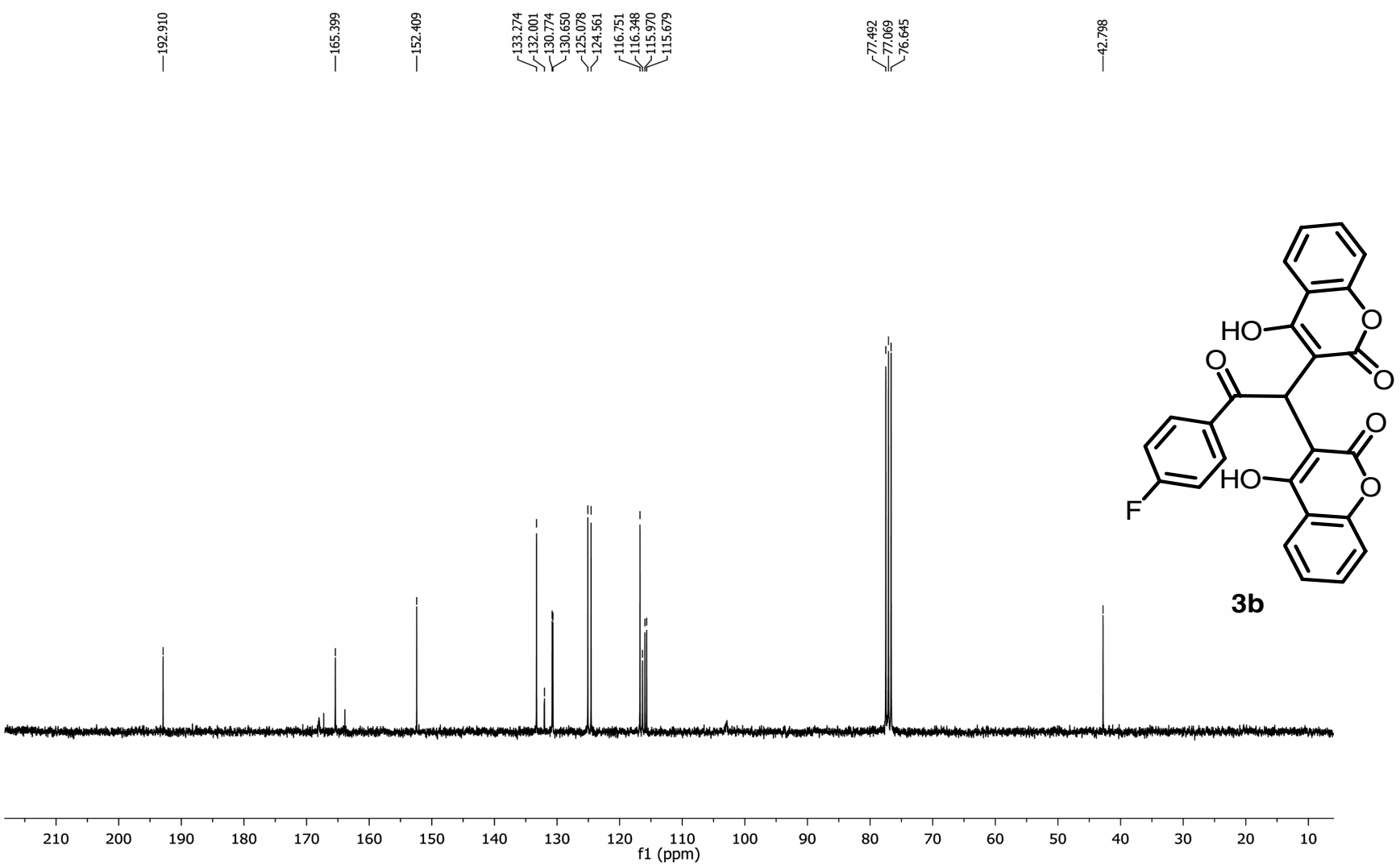

Figure 2 ^{13}C NMR spectrum of **3b**

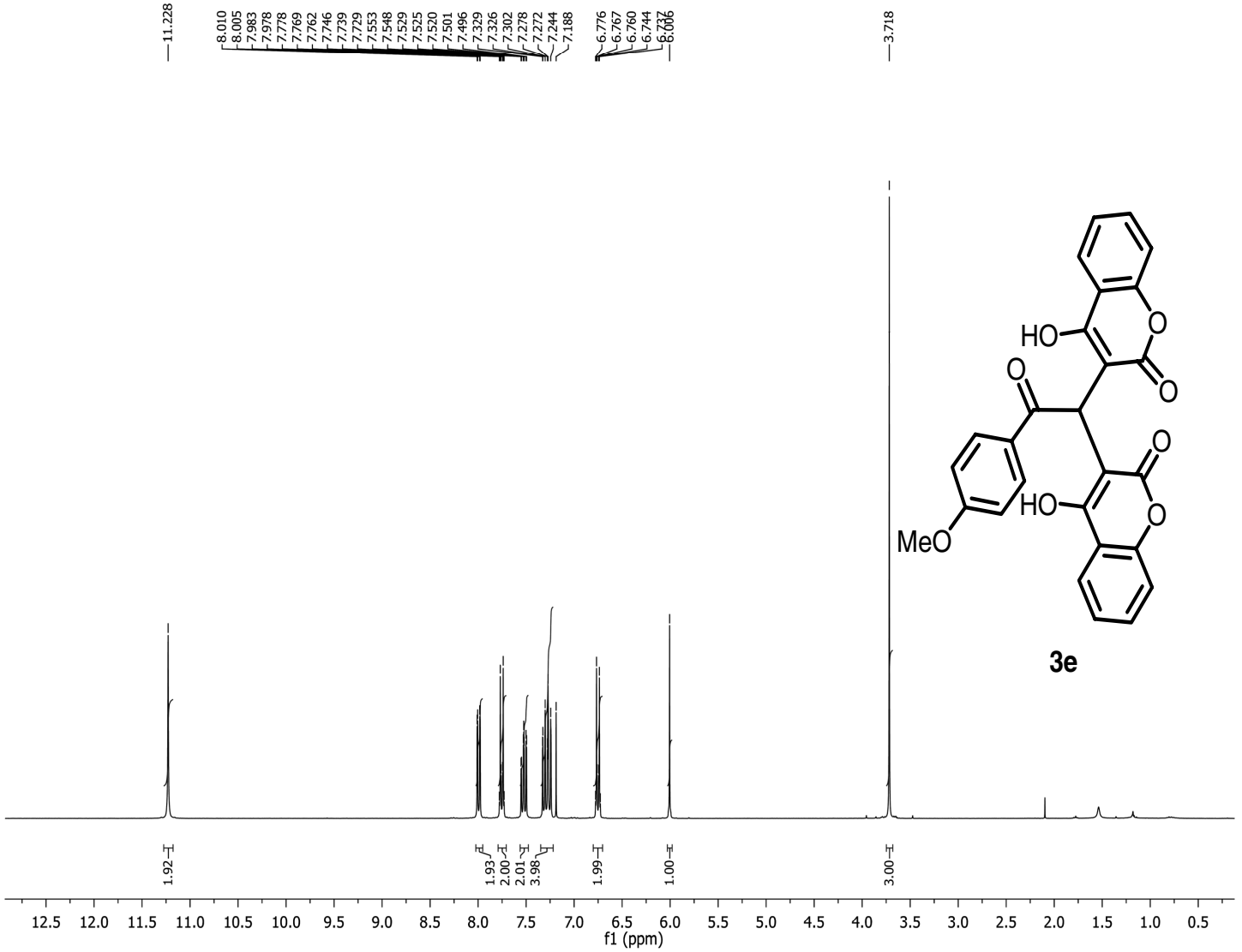

Figure 3 ^{1}H NMR spectrum of **3e**

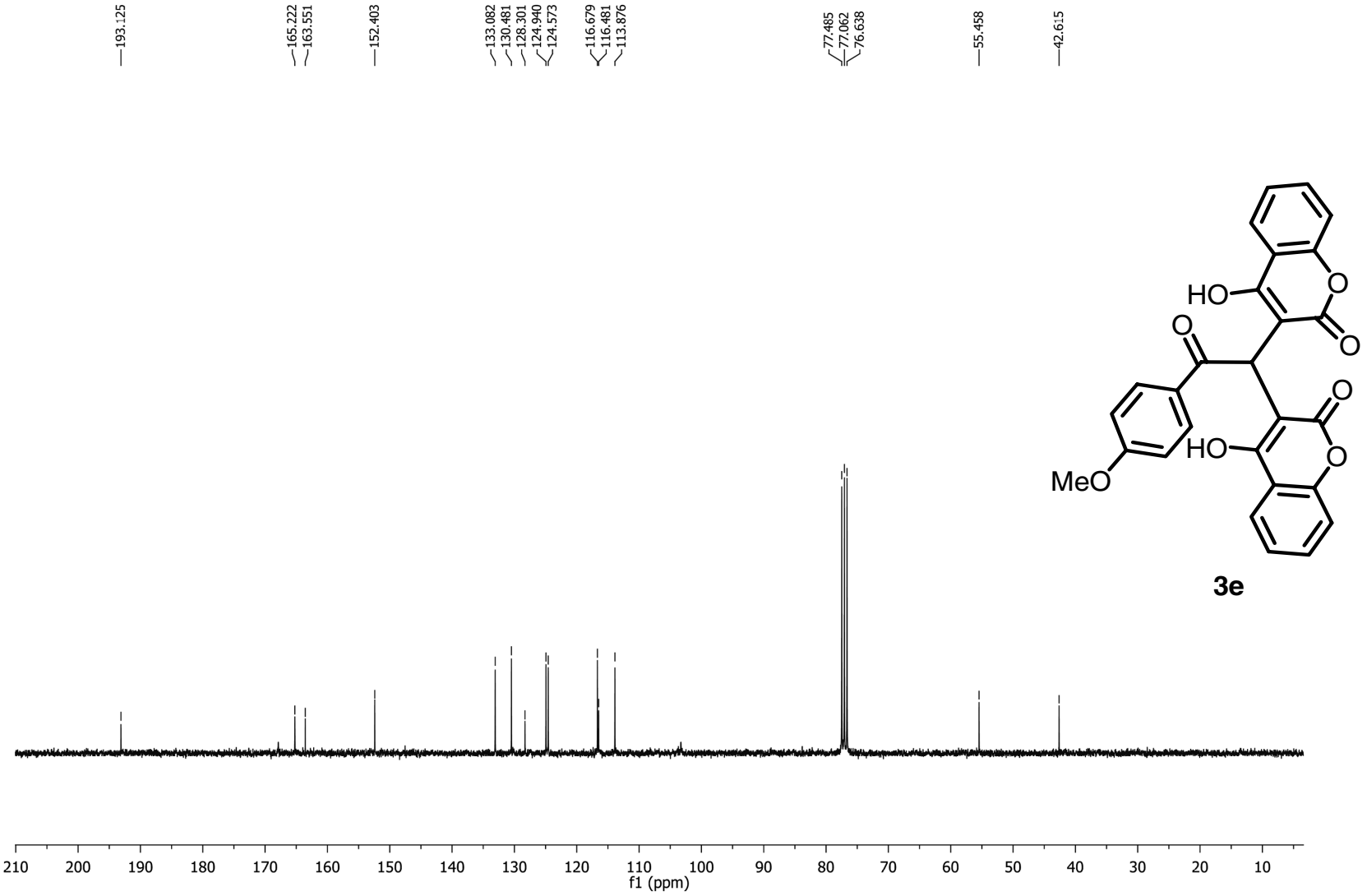

Figure 4 ^{13}C NMR spectrum of **3e**

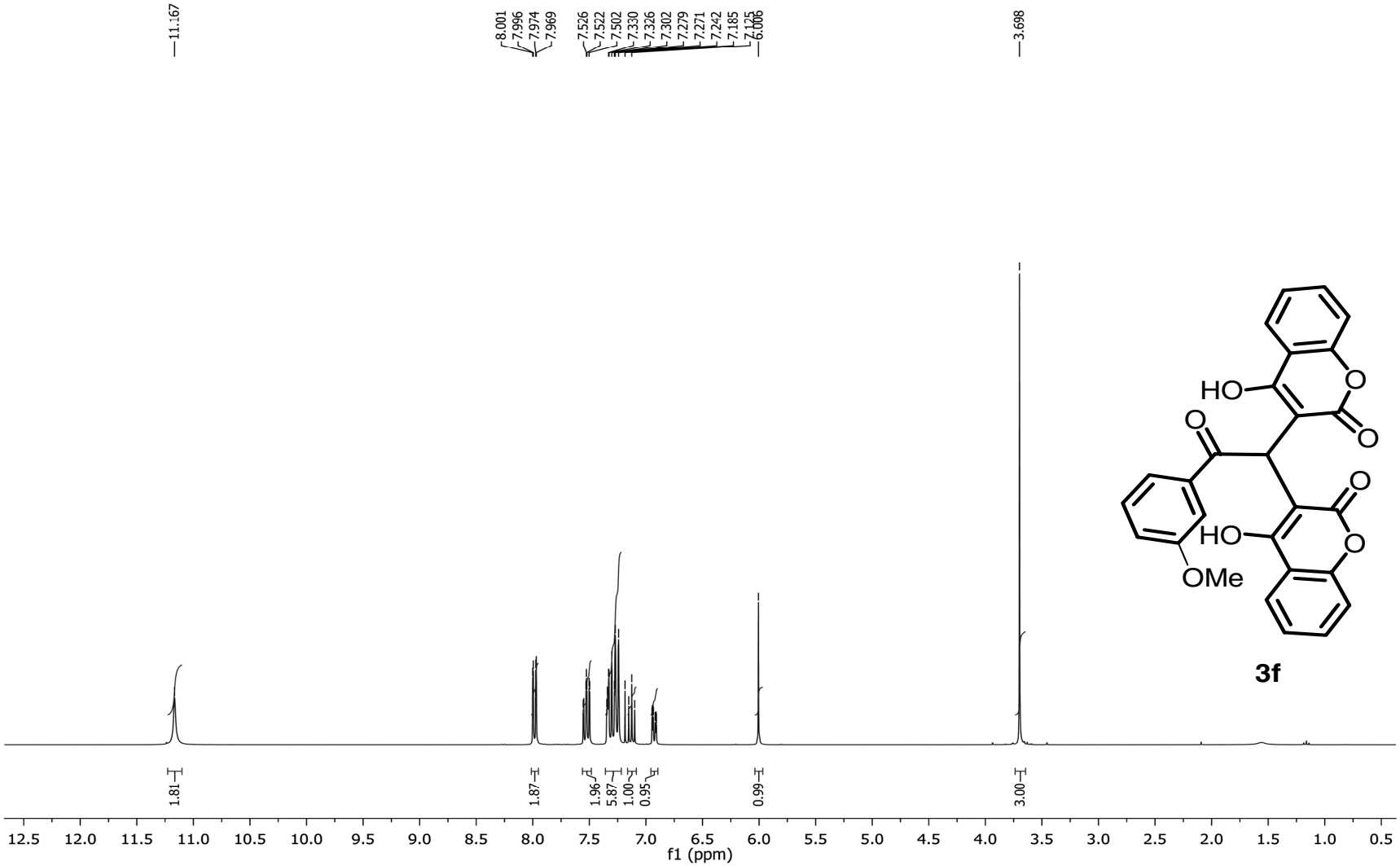

Figure 5 ^{1}H NMR spectrum of **3f**

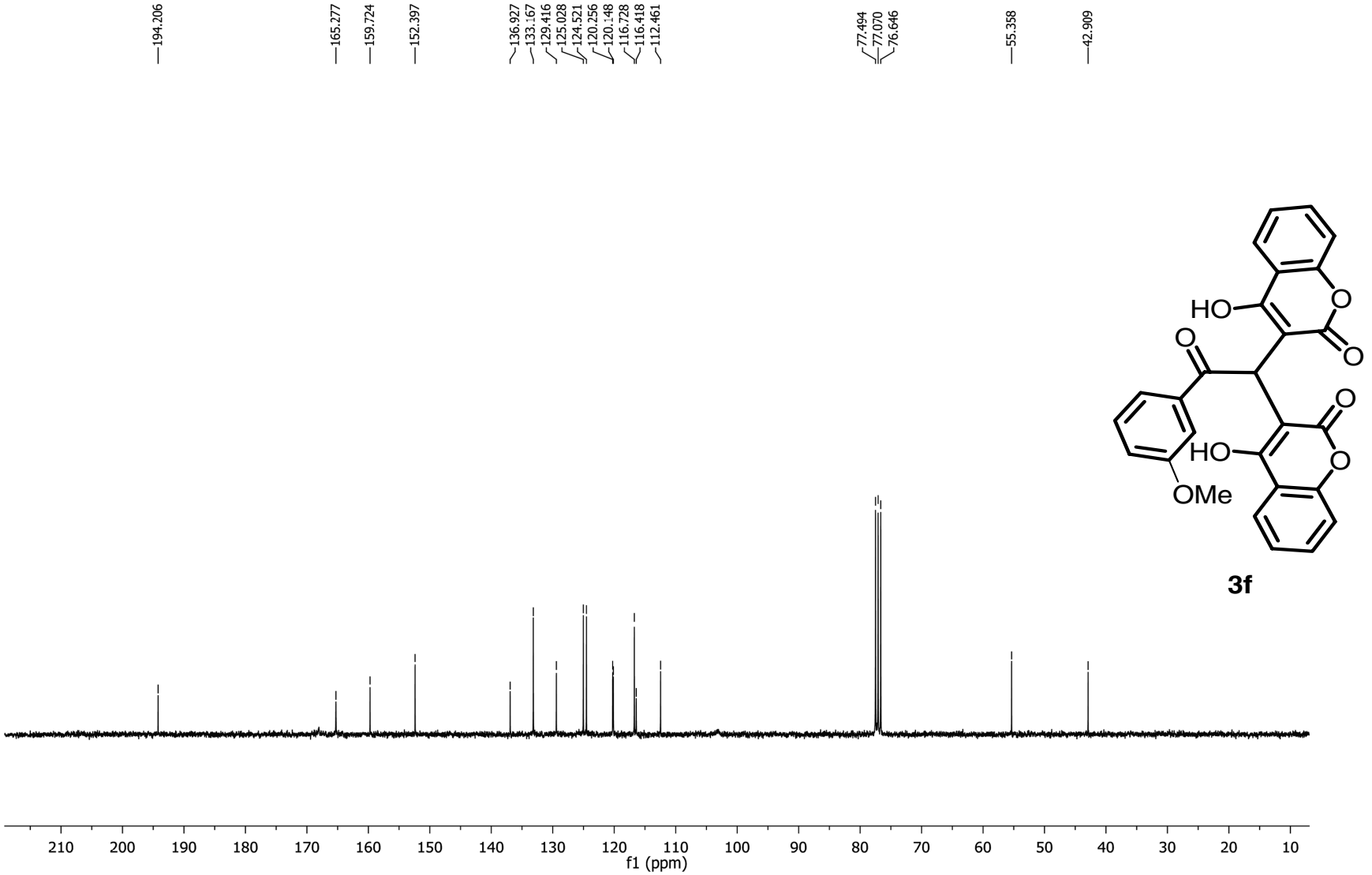

Figure 6 ^{13}C NMR spectrum of **3f**

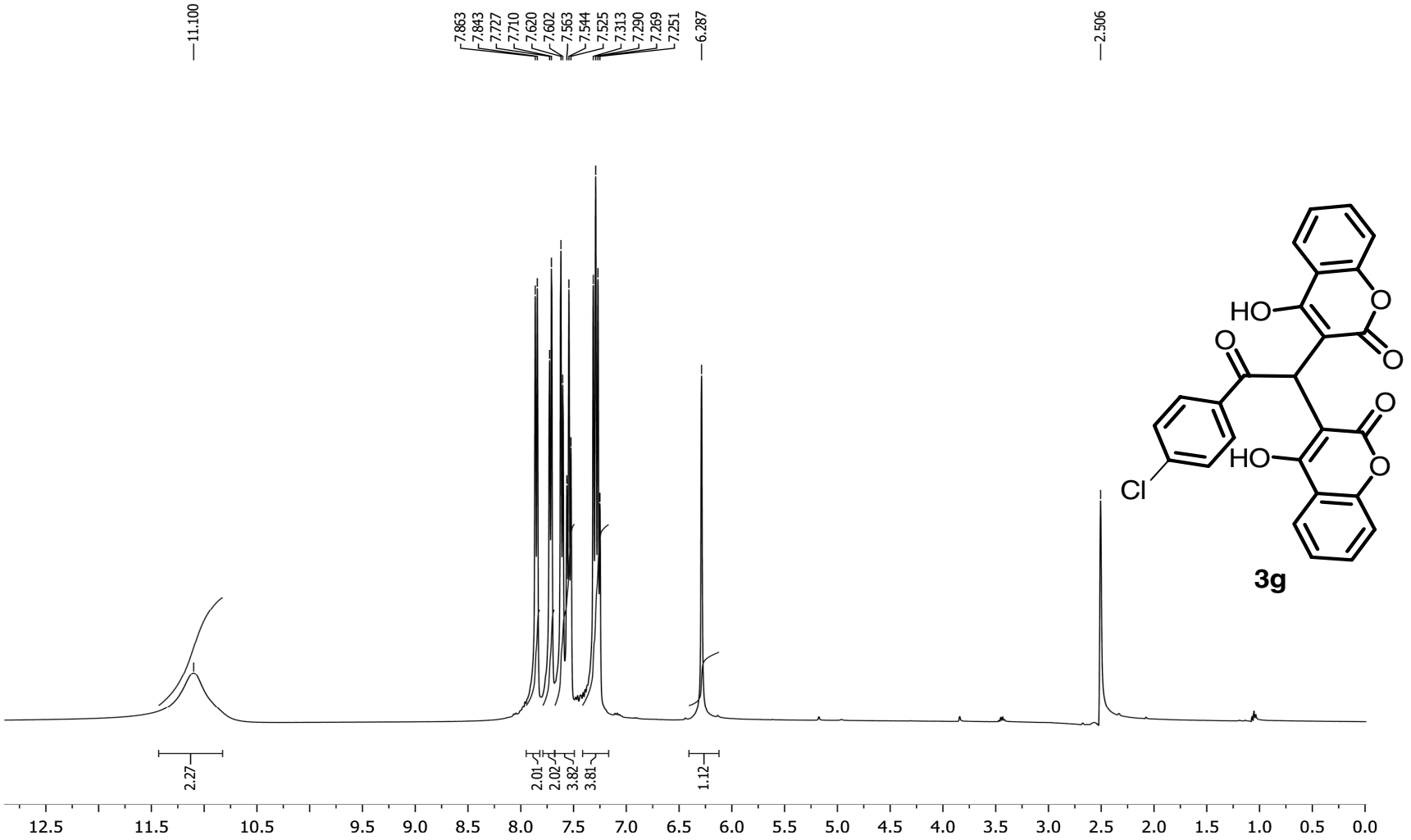

Figure 7 ^{1}H NMR spectrum of **3g**

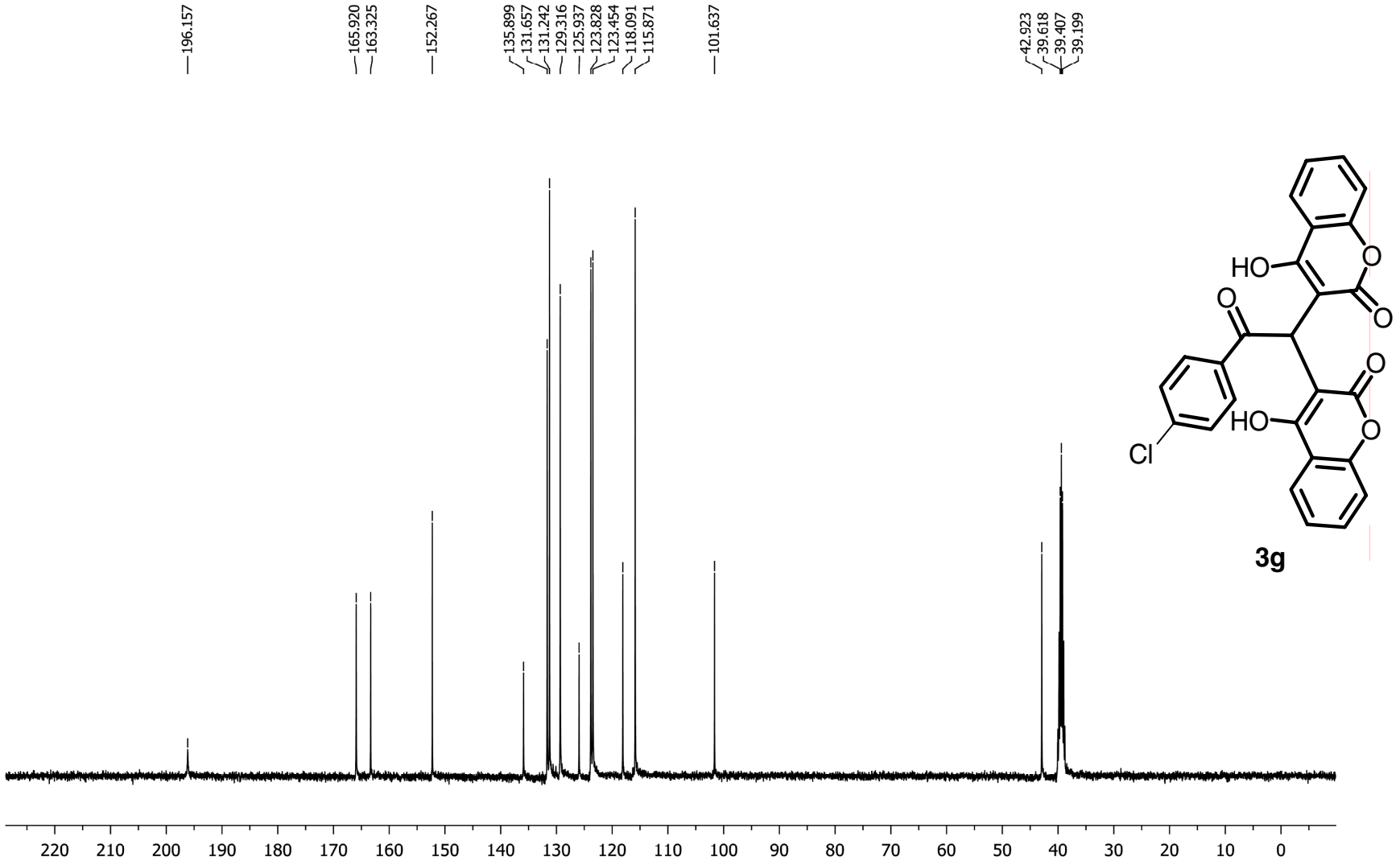

Figure 8 ^{13}C NMR spectrum of **3g**

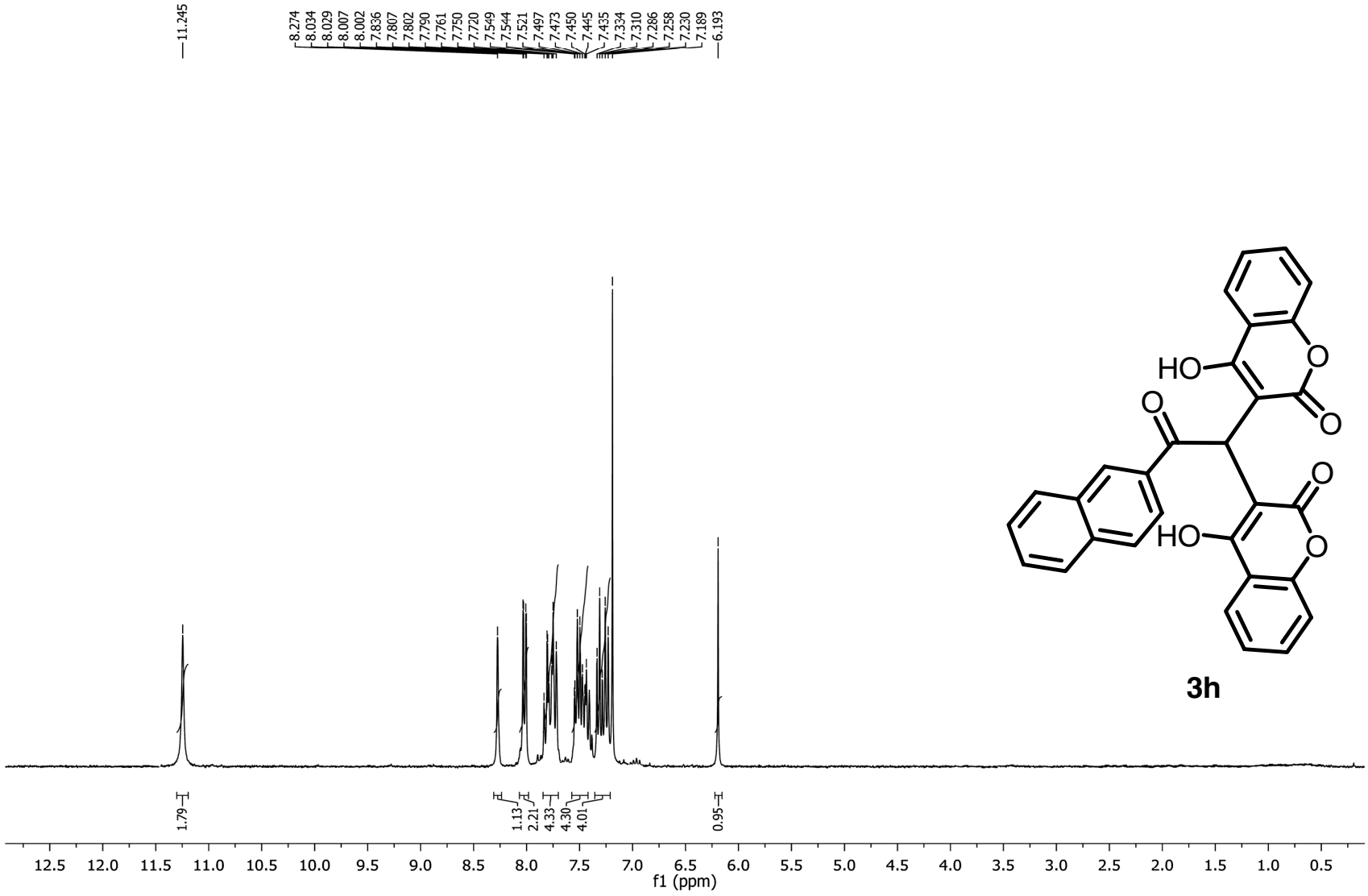

Figure 9 ^{1}H NMR spectrum of **3h**

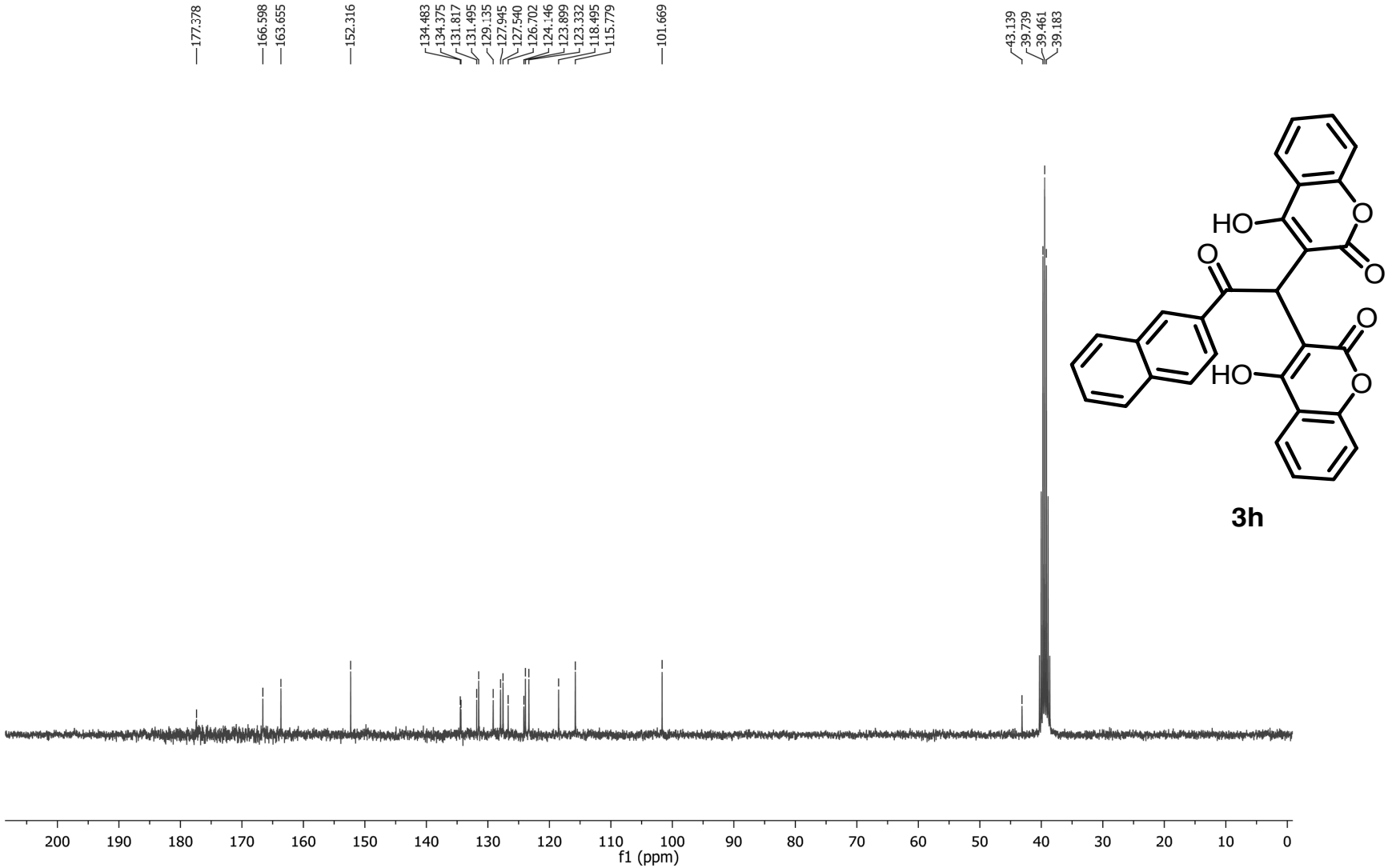

Figure 10 ^{13}C NMR spectrum of **3h**